

N⁺ series

All-Black Solar Panels-54

410-430W

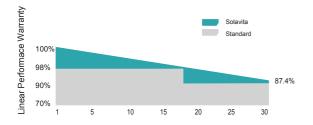
QUALITY SYSTEM

IEC 61215(2021), IEC 61730(2021)

ISO 9001:2015: Quality management systems

ISO 14001:2015: Environmental management systems

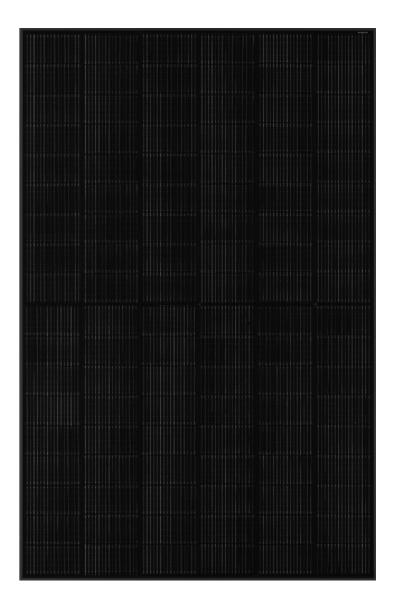
ISO 45001:2018: Occupational health and safety management systems



15 YEARS 15-year product warranty

30 YEARS 30-year linear power output warranty

0.4% year 2-30 power degration



KEY FEATURES



Bifacial Energy Yield | N-type Silicon Wafer

Additional power generation from the backside of bifacial moduless increases the overall energy yield



Better low irradiance response

Superior power generation under shading conditions



Improvement in power generation performance

TOPCon can achieve a power generation gain of up to 3%. Reduced power temperature loss and excellent performance in high temperatures cost-effectiveness



Highly Anti PID

linear power warranty with first year ≤1% degradation and an annual degradation rate of up to 0.4% after that.



Mechanical load enhancement

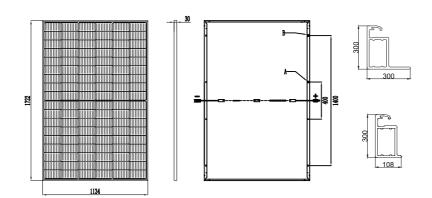
Maximum wind load (2400Pa) / Maximum snow load (5400Pa)







Technical drawing



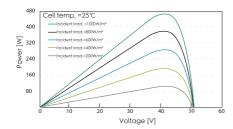
Mechanical Specifications

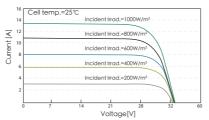
182×91mm Solar Cells 1722 × 1134 × 30mm Dimension Weight 21.3kg 2.0mm tempered Glass, high transparency Front Glass packing configuration EVA/POE Back Glass 2.0mm heat-tempered glass Frame anodized aluminium alloy Junction Box IP68/3 diodes 4mm² / +450mm -250mm Output Cables (Customized Length)

Electrical	Charac	terist	IICS

Electrical Characteristics					
Module Type	182THCD410-54	182THCD415-54	182THCD420-54	182THCD425-54	182THCD430-54
	STC	STC	STC	STC	STC
Maximum Power[W]	410	415	420	425	430
Maximum Power Voltage[V]	31.45	31.62	31.80	31.98	32.16
Maximum Power Current[A]	13.04	13.12	13.21	13.29	13.37
Open circuit voltage[V]	37.75	37.92	38.09	38.26	38.43
Short Circuit Current[A]	14.02	14.05	14.08	14.11	14.14
Module Efficiency	21.00%	21.25%	21.51%	21.76%	22.02%
Operating Temperature	-40°C~+85°C				
Maximum System Voltage	DC1000V/1500V				
Maximum Series Fuse Rating	30A				
Power Tolerance[W]	0~+5W				
Voc Temperature Coefficient	-0.28%/°C				
Pmax Temperature Coefficient	-0.29%/°C				
Isc Temperature Coefficient	0.04%/℃				
Nominal Opearting Cell Temperature	45±2℃				

Characteristic





Level

С Fire Performance

Class II Security Protection

Packing Configuration

Pallet	36pcs/Pallet			
Container	20/GP	40/HQ		
Number of Container	216	936		